Elastocon®

Testing with precision

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SWEDAC ACKREDITERING
Ackred. nr 1678
Kalibrering
ISO/IEC 17025

Our calibration and testing services are accredited according to ISO 17025. We are also certified according to ISO 9001

SP Certified ISO 9001

info@elastocon / #2-2022 / Autumn News

Meet Elastocon at K 2022 in hall 11/G17

Elastocon's experts will be present at the K-fair in Düsseldorf 19–26 October 2022.

We will present, among other things, our proprietary stress relaxation test system for continuous measurement of rubber in either compression or tension according to ISO 3384, ISO 6914 and ASTM D6147 and other technically equivalent standards.

In stress relaxation testing, a sample is compressed between two plates, usually 25 %. Alternatively the sample is elongated, usually 50 %. In the test rig, the force and temperature are measured, which are registered continuously.

The test usually takes place in air at a suitable aging temperature for the material. It can also be performed in elongation and in different types of liquids, as well as in stable or cycling temperature. We can offer different solutions for temperatures from -70 °C to +300 °C.

The decrease in force during stress relaxation testing correlates well with the reduction of elongation at break in an aged tensile test. But with stress relaxation testing, you can continuously follow the decrease in force during the time that the material ages.

Read more on the next page

Elastocon manufactures instruments for testing of rubber and plastic materials

- Specimen preparation
- Ageing ovens
- Stress relaxation and creep
- Low temperature testing
- Windscreen fogging
- Computerised testing
- Electrical tests
- Custom built instruments
- Calibration service

Meet Elastocon at K 2022 in hall 11/G17

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We will also show our rigs for compression set (EV 03), and tension set (EV 04).

The **EV 03** rig is used for the determination of the compression set characteristics of vulcanized and thermoplastic rubbers at ambient or elevated temperatures according to ISO 815-1.

With the **EV 04** rig you can easily perform tension set tests according to standard ISO 2285, for determining the dimensional changes in test pieces of vulcanized or thermoplastic rubber during and after tensile loading for relatively short periods under constant elongation or constant loading.

Both rigs works well in all our ageing ovens for precision ageing of rubber and plastic materials, but also in other types of ageing cabinets with standard shelves.

In Elastocon's testing laboratory we perform stress relaxation tests with continuous measurement of rubber in either compression or tension according to ISO 3384, ISO 6914 and ASTM D6147 and other technically equivalent standards.

Also on display is our **manual cutting press, EP 08**, for fast, easy and ergonomic production of flawless rubber and plastic test specimens by punching.

We also perform **contract testing** in our testing laboratory. 15 testing methods for rubber are accredited by Swedac. Stress relaxation in compression and elongation, as well as compression set at ambient or elevated temperatures, as well as in low temperatures, are some of these testing methods.

Welcome to meet Elastocon at the K 2022 in hall 11/G17!

Completely new Windows applications for TR, Gehman and brittleness testing

Elastocon's proprietary low temperature testers have received completely new Windows applications for TR, Gehman and brittleness testing.

The new applications focus on user-friendliness and will guide the user in setting up and performing the tests.

A test can be configured to be performed according to the applicable ISO and ASTM.

Tests can be viewed and compared with other tests in the new test result viewer.

Test reports containing one or multiple tests can be created directly from the application and they contain the information ISO and ASTM requires.

Test results can be exported for use in spreadsheet applications, such as Excel.

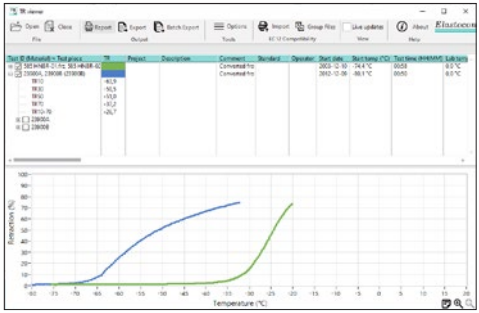
Low temperature tests

The low temperature properties of rubber materials are very important, especially for rubber products used in colder climates. The requirements for these properties have since long been included in specifications, especially in the automotive industry.

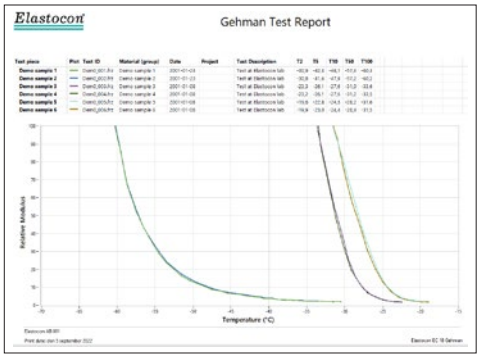
For rubber materials there are some important standardised test methods for low temperatures:

- Temperature retraction procedure (TR test) according to ISO 2921 and ASTM D1329
- Determination of the relative stiffness characteristics of vulcanized or thermoplastic rubbers (Gehman test) according to ISO 1432, and ASTM D1053
- Determination of low-temperature brittleness according to ISO 812, ISO 4646 and ASTM D2137.

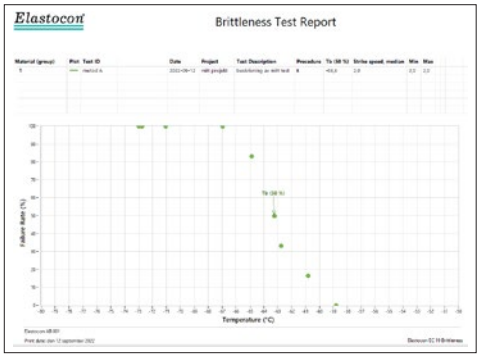
Elastocon offer automatic computerised low temperature testers that increase the precision up to 5 times. The capacity increases with about 50 % and the labour time decreases about 75 %.



The new **EC 17** *Windows application for determination of the temperature-retraction characteristics of stretched vulcanized rubber (TR test).*



Test report from the new **EC 18** *Windows application for determination of the relative stiffness characteristics of vulcanized or thermoplastic rubbers (Gehman test).*



Test report from the new **EC 19** *Windows application for determination of low-temperature brittleness.*

New employees at Elastocon

Per-Anders Larsson is employed as a sales manager since April.

Per-Anders has a background as a consultant, production manager and self-employed in the graphic industry.

Måns Ackerholm is employed in sales and calibration, as well as field calibration, since May.

Among other things, Måns has worked with sales of hydraulics/pumps, calibration of temperature sensors and at RISE Research Institutes of Sweden with pressure calibration.

Jonas Ahlgren is employed since June to take care of field calibration, and calibration of our own instruments before shipping.

Jonas comes most recently from Ringhals nuclear power plant in Sweden, where he also worked with calibration.

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